

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

ADESTOV, N.A.; YUSHMAJ OV, N.A.; PROSVIRIN, A.D., etv. red.; VAGNER,
A.A., nauchn. red.; RUMOVA, I.P., nauchn. red.; ZAVALISHIN,
V.M., red.; ALEKSEYEVA, T.V., tekhn. red.

[Motor vehicles of the U.S.S.R.]; the M-13 and M-13B "Chaika"
automobiles; structural changes and the interchangeability of
parts and units] Katalog-spravochnik "Avtomobili SSSR; avtomo-
bil' "Chaika" modeli M-13 i M-13B; konstruktivnye izmeneniiia i
vzaimozameniamost' detalei, uzlov i agregatov. Moscow, 1963.
(MIRA 16:12)
52 p.

1. Moscow. TSentral'nyy institut nauchno-tehnicheskoy, infor-
matsii po avtomatizatsii i mashinostroyeniyu. 2. Glavnyy in-
struktor Gor'kovskogo avtozavoda (Prosvirin).
(Automobiles—Catalogs)

ALEKSEYEV, O.I.; DZHARLIKAGANOV, U.A.; ZAVALISHIN, V.S.

Methods of calculating future technical and economic indices
in selecting the optimum variant for boundary limits of an
open-pit mine. Trudy Inst. gor. dela AN Kazakh. SSR 18:
3-8 '65.

Technical and economic evaluation of variants of boundary
limits of an open-pit mine. Ibid. 18:92
(MIRA 18:12)

TAYTS, N.Yu., doktor tekhn. nauk; KLEYNER, M.K., inzh.; ZAVALISHIN,
Ye.K., inzh.; KALUGIN, Ya.P., inzh.; FALILEYEV, I.L., inzh.;
KAGAN, N.I., inzh. [deceased]; Prinimali uchastiye: POPOV,
V.N. inzh.; CHUYKOV, A.A., inzh.; MINUKHINA, L.N., inzh.;
KHATSAREVICH, V.R., inzh.; TOLMACHEVA, I.A., inzh.; BAZHENOVA,
V.N., inzh.

Technological and thermodynamic characteristics of strip
heating for the continuous furnace welding of pipes.
Stal' 24 no.8:746-750 Ag '64. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut,
Ural'skiy nauchno-issledovatel'skiy trubnyy institut i
Chelyabinskiy truboprovodnyy zavod.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

ZAVALISHINA, D.N.; PUSHKIN, V.N.

Mechanisms of operative thinking. Vop. psichol. 10 no.3:
87-100 My-Je '64. (MIRA 17:9)

1. Institut psichologii Akademii pedagogicheskikh nauk RSFSR,
Moskva.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

BERDICHESKAYA, Nina Aleksandrovna; ZAVALISHINA, Natal'ya Grigor'yevna;
STOLETHYAYA, Anna Markienovna; GEL'FENBEIM, L.L., otv.red.;
TROFIMENKO, A.S., tokhn.red.

[A textbook of ore dressing] Khrestomatija po obogashcheniiu poleznykh
iskopaemykh. Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1959. 102 p.
(MIRA 14:1)

(Readers and speakers--Ore dressing)

ZAVALISHIN, N.I., prof.; LIDOV, I.P., dots.; LITOVCHEJKO, I.G.; MESHKOV,
V.V., dots.; MOBIL'NITSKIY, M.B., kand. med. nauk; ARTEM'IEV,
S.G., red.; BUL'DYAYEV, N.A., tekhn. red.

[Organizational principles in providing medical care for troops]
Osnovy organizatsii meditsinskogo obespecheniya voisk. Moskva;
Medgiz, 1961. 219 p.
(MERA 15:2)

(RUSSIA--ARMY--MEDICAL CARE)

PUSHKIN, V.N. (Moskva); ZAVALISHINA, D.N. (Moskva)

"Cybernetics in the service of communism." Reviewed by V.N.Pushkin,
D.N.Zavalishina. Vop. psichol. 8 no.4:156-160 Jl-Ag '62.
(MIRA 16:1)

(Cybernetics) (Psychology, Physiological)

ZAVALISHINA, D.N. (Moskva); PUSHKIN, V.N. (Moskva)

Some problems of operative planning in the work of the stationmaster
on duty. Vop. psichol. 8 no.1:3-10 Ja-F '62. (MIRA 15:4)
(RAILROADS--TRAIN DISPATCHING--PSYCHOLOGICAL ASPECTS)

ACQ/NR 425026155

SOURCE CODE: UR/0216/65/000/005/0780/0782

AUTHOR: Keyzer, S. A.; Zavalishina, O. A.

32

ORG: none

TITLE Effect of low doses of chronic gamma irradiation on the testes of experimental animals

SOURCE AN SSSR. Izvestiya. Seriya biologicheskaya, no. 5, 1965, 780-782

TOPIC AGS: irradiation damage, gamma irradiation, cytology, radiobiology, endocrine system disease

ABSTRACT: Quantitative and qualitative changes in spermatogenic epithelium in gamma irradiated rats, guinea pigs, and rabbits were studied. Daily irradiation of rats at doses of 100 and 200 rads per month caused a decrease in the weight of testes and in the number of spermatozoa per milliliter of the seminiferous tubules. These changes were similar in all three species. Daily irradiation of guinea pigs at doses of 100 and 200 rads per month caused a decrease in the weight of testes, in the number of spermatozoa per milliliter of the seminiferous tubules, and in the number of Leydig cells per gram of testes. Daily irradiation of rabbits at doses of 100 and 200 rads per month caused a decrease in the weight of testes, in the number of spermatozoa per milliliter of the seminiferous tubules, and in the number of Leydig cells per gram of testes.

UDC: 539.166 : 591.463

Card 1/2

2

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

B 150 R-2C
ACC NBR: APSC20155

in the rat epidermis. Exposure to 0.05 and 0.5 r doses caused a proportional increase in the number of epithelial cells in the various stages of mitogenesis during the first 1 hr (P^r < 0.05).

SUB CODE: 05 SUBR DATE: (1965) 81111100 71111100

Card 2-2

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

KEYZER, S.A.; ZAVALISHINA, O.A.

Effect of chronic gamma irradiation in small doses on the
testicles of laboratory animals. Izv. AN SSSR. Ser. biol.
no.5:780-782 S-O '65. (MIRA 18:9)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

Zavalishina, O. F.

KOSHTOANTS, Kh. S.; BLINOVA, A. M.; ZAVALISHINA, O. F.

"The Effect of Body Temperature Increase on Circulation in Dogs". (Vliyaniye po-vysheniya temperatury tela na krovoobrashcheniye u sobak).

"Report 1. The Effect of Strong Over-Heating." (Soobshcheniye 1. Vliyaniye ostrogo peregrevaniya.)

In the book, "The Effect of High Temperatures on Animal and Human Organism. Experimental and Physiological Research." Vyp. 1. Edited by I. P. Razenkov. M.-L., Medgiz, 1934, s. 69-80, ria., tabl, Literatura 19nazv.

ZAVALISHINA, S. F.

20614 ZAVALISHINA, S. F. Stroyeniye steblya kazyarinobykh, kak odin iz yarkikh
primerov vliyaniya lista na formirovaniye pobega. Uchen. zapiski (Leningr. gos. ped.
in-tim. (Gertsena), LXXXII, 1949, s. 83-94. Bibliogr: 6nazyv.

SO: LETOPIS ZHURNAL STATEY - Vol. 28 Moskva - 1949

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

Zavod Sistem A.S.F.

OTRSPL, Vol. 5, No. 1

Zavilishina, S.F. (A.O. Gertsen Leningrad State Pedagogical Institute).
Chloroplasts in the tissues of the style in plants with covered seeds, 137-9

Akademija Nauk, S.S.R., Doklady, vol. 78, no. 1

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

ZVALISHINA, S.F.

GORDEYEVA, Tamara Nikolayevna; ZAVALISHINA, Sofiya Fedorovna; KRUBERO,
Yuliy Karlovich; PIS'YUKOVA, Vera Vasil'yevna; STRELKOVA, Ol'ga
Stepanovna; GURZHIYEVA, A.M., tekhnicheskiy redaktor

[Summer field work in botany; manual for pedagogical institutes]
Letniala polovaina praktika po botanike; posobie dlia pedagogiche-
skikh institutov. Leningrad, Gos. uchebno-pedagog. izd-vo Minister-
stva prosveshcheniya RSFSR, Leningradskoe otd-nie, 1954. 285 p.
(Botany--Field work) (MIRA 8:7)

Zavalishina, S.F.

I-4

USSR/Physiology of Plants. Mineral Nutrition.

Abs Jour: Ref. Zhur-Biologiya, No 1, 1958, 1168.

Author : Zavalishina, S.F.

Inst : Leningrad State Pedagogical Institute.

Title : The Influence of Boron on the Development of Vascular Bud
Tissues of the Cucumber Stem (Cucumis sativus L.)

Orig Pub: Uch. zap. Leningrad. gos. ped. inst. 1955, 109, 187-198.

Abstract: In the spring and autumn of 1952 in the laboratory of the Leningrad Pedagogical Institute two vegetation experiments (water culture) were undertaken with the cucumber (Rytov's indoor type) with the aim of explaining the influence of B on the meristem out of which the tissues of the vascular buds are formed. The experiments lasted from five to seven weeks. In the spring experiment under more favorable lighting conditions the influence of B turned out to be stronger and quicker (after four weeks) than in the autumn one (after seven weeks). In the control plants

-4-

Card : 1/2

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

ZAVALISHINA, S.F.

Obtaining rhizoids and secondary protonema for practice lesson
demonstrations. Uch. zap. Ped. inst. Gerts. 178:63-68 '59.
(MIRA 14:7)

(Mosses)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

KASTBYUSHKA, L.V., inzhener; ZAVALLISHIN, M., redaktor; KARPINOVICH, Ya.,
tekhnicheskiy redaktor.

[Collective-farm radio unit] Kalbaeny radyovuzel. Minsk, Dzirzh.
vyd-va BSSR, Red. navukova-tehnicheskai lit-ry, 1952. 79 p. (MLBA 8:2)
(Collective farms) (Radio--Receivers and reception)

REYMAN, V.M.; ZAVALKO, Ye.V.; BABAYEV, A.M.

Some characteristics of recent tectonics of the mountainous part
of the Vakhsh Valley. Trudy Inst.geol.AN Tadzh.SSR 5:97-105 '62.
(MIRA 16:1)

(Vakhsh Valley—Geology, Structural)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

RUYMAN, V.M.; LYSKOV, L.M.; ZAVAIKO, Ye.V.; PALATNY, P.S.

Recent tectonic movements in the Vakhsh Valley. Dokl.AN
Tadzh.SSR 2 no.2:13-19 '59. (MIRA 13:4)

1. Institut geologii AN Tadzhikskoy SSR. Predstavлено членом-
корреспондентом AN Tadzhikskoy SSR R.B. Baratovym.
(Vakhsh Valley--Geology, Structural)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

ZAVALO, S. T.

ZAVALO, S. T. -- "Operative Free Groups." Sub 18 Jun 52, Sci Res
Inst of Mechanics and Mathematics, Moscow State U. (Dissertation
for the Degree of Candidate in Physicomathematical Sciences).

SO: Vechernaya Moskva January-December 1952

ZAVALO, S. T.

USSR/Mathematics - Modern Algebra, 11 Aug 52
Admissible Subgroups

"Free Operator Groups," S. T. Zavalov

"DAN SSSR" Vol 85, No 5, pp 949-951

States that the problem of the construction of admissible subgroups is extremely difficult. Gives a complete description of the construction of all admissible subgroups of a free operator group with a group of operators; however, for the case of free operator groups with free associative system of operators, a class of admissible subgroups which are free operator groups is indicated. Submitted by Acad A. N. Kolmogorov 21 Jun 52. 239T87

Zavalos, S. T.

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.
Vulikh, B. Z. (Leningrad). Semiordered Rings. Call Nr: AF 1108825
20-21

Mention is made of Domrachev, G. I.

There are 2 references, both of them USSR.

Gavrilov, L. I. (Leningrad). K-continued Polynomials. 21

There is 1 USSR reference 21

Grantmakher, F. R. (Moscow). On Structural Lattice Stability of the Sum of Two Polynomials. 21

Gurevich, G. B. (Moscow). Algebra of a Group of Automorphisms of an Arbitrary Standard Zero-algebra. 21-22

There are 2 references, both of them USSR.

Zavalos, S. T. (Cherkassy). Operator Free Groups. Card 8780 22-23

ZAVALO, S.T. (Kiyev)

S-free operator groups. Ukr. mat. zhur. 16 no.5:553-601 '62.
(MTR 17:10)

ZAVALO, S.T. (Kiyev)

Operator S-free groups. Part 2. Ukr.mat. zhur. 16 no.6:730-751
'64 (MIRA 18;2)

L 10958-67 EWT(1) SCTB DD/GD

ACC NR: AT6036564

SOURCE CODE: UR/0000/56/000/000/0173/0174

AUTHOR: Zavalova, N. D.; Ponomarenko, V. A.

28

ORG: none

TITLE: Psychophysiological characteristics of human activity in an automated control system [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 173-174

TOPIC TAGS: man machine communication, space psychology, psychophysiology, cosmonaut training

ABSTRACT: It is known that in automatic flight the basic activity is monitoring, while active functions occur during an ejection or emergency situation. Such functional distribution is of practical importance to the pilot-cosmonaut in that the flow of afferent impulses from the motor analyzer, important to control, is almost entirely suspended during automated flight. Here the motor analyzer of the pilot plays the unusual role of maintaining a constant state of readiness for action. A similar condition described by A. A. Ukhtomskiy is considered as a state of operator inactivity. Apparently, the level of operator inactivity will affect reaction time when intervention in a control process is necessary. The problem of operator activity is closely related to the problem of maintaining operator "vigilance," since a state of preparedness on a back-

Card 1/2

L 10950-07

ACC NR: AT6036564

ground of even partial sensory impoverishment is characterized by
lowered human tonus.

Results of an experiment involving pilot-operator reliability during a process of transition from a state of lowered activity to an extremal situation with a stress background (flight experiment) will be summarized in a separate report. Here, special attention is accorded to a study of the effectiveness of human inclusion in a control process as a function of an information model. The work capacity criteria are time characteristics, the level of physiological reserves, and the quality of activity. On the basis of the characteristics of an operator acting as a compensatory link in an automatic control system, psycho-physiological recommendations relative to man-machine functions distribution principles under specific flight conditions are enumerated. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 05, 06 / SUBM DATE: 00May66

Card 2/2

ZAVALOVA, N.D. (Moskva); ZUKHAR', V.P. (Moskva); PETROV, Yu.A. (Moskva)

On the problem of hypnopedia. Vop. psichol. 10 no.2:98-102
Mr-Ap '64. (MIRA 17:9)

ZAVAL'SKAYA, A. I.

Promising method. Zashch. rast. ot vred. i bol. 5 no.4:16 Ap '60.
(MIRA 13:9)

1. Agronom po zashchite rasteniy Podgorenskoy Rayonnoy traktornoy
stantsii, Voronezhskoy oblasti.
(Aerosols)

ZABORENKO, K.V.; ZAVAL'SKAYA, A.V.; FOMIN, V.V.

Ion exchange determination of the composition and stability constants
of cerium oxalates. Radiokhimiia 1 no. 4:387-390 '59.
(MIRA 13:1)

(Cerium oxalate)

ZAVAL'SKAYA, A.U.

C/W - B/C, F.L.

21 (0), 5 (0)

Radiochemistry, V. 3.

SERIAL: SERV-2-2-17/24

PERIODICAL: Atomnaya energiya, 1959, Vol. 7, No. 2, pp. 175-176 (mn).

ABSTRACT: A symposium was held in Leningrad from 3 to 5 March 1959, more than 200 participants from different institutes in Moscow, Leningrad, Kiev, Voronezh, Uzhgorod and Gorky attended. Sixty-eight papers were read. The following are mentioned: I. V. Shatilov. On the problem of the molecular state of substances. I. V. Sazanov. On the nature of the interaction of the radioactive elements in solutions. I. V. Shatilov, I. A. Mulyukova, I. V. Shatilov, E. I. L'vovskaya, I. A. Mulyukova, I. V. Shatilov. Application of radioactive elements in nuclear reactions of solutions (Sr, Ba, Ra, Pu). N. P. Tchernykh, V. V. Kostylev. Application of radioactive elements in organic solvents. Separation of natural hydrides of water. F. P. Zabotina. Radiation. Complex formation of the radioactive elements with chelating agents. T. B. Libanova, I. V. Shatilov. Determination of the concentration of the radioactive elements in aqueous complex by conductometry. By ion exchange of the organic anionate complexes. J. J. Becker. Complex formation of plutonium and americium with the organic reagent diaminotetraacetic acid (EDTA) and citric acid. Phosphoric acid. I. V. Shatilov. Determination of a new method for the estimation of low charges of radioactive substances in swelling suspensions by application of ion exchange resins of different swelling capacities. J. B. Trankovskaya. I. V. Shatilov. Coagulation of the radioactive elements in aqueous solutions. Dependence of complex formation on the concentration of the radioactive elements. By application of the ion exchange and the Potentiometric methods. I. V. Shatilov. Determination of the conditions of coagulation of the radioactive elements in the organic phase (hydrates of nitrate with nitrite and in dibutyl phthalate). I. V. Shatilov. Determination of the dependence of the degree of dissolution of the radioactive elements. Determination of the dependency of the characteristics of the organic and the water phases in order to determine the condition of the substance in the solution and at the concentration range of the organic system. I. V. Shatilov. Dependence of the density of the radioactive plutonium on substitution of hydrogen with deuterium. Hydrogen and deuterium are substituted in the molecule of plutonium by the reaction: $Pu^{241} + D \rightarrow Pu^{240} + ^{241}H$.

Card 1/3

Card 2/3

Card 3/3

Card 4/3

Card 5/3

Card 6/3

Card 7/3

Card 8/3

Card 9/3

Card 10/3

Card 11/3

Card 12/3

Card 13/3

Card 14/3

Card 15/3

Card 16/3

Card 17/3

Card 18/3

Card 19/3

Card 20/3

Card 21/3

Card 22/3

Card 23/3

Card 24/3

Card 25/3

Card 26/3

Card 27/3

Card 28/3

Card 29/3

Card 30/3

Card 31/3

Card 32/3

Card 33/3

Card 34/3

Card 35/3

Card 36/3

Card 37/3

Card 38/3

Card 39/3

Card 40/3

Card 41/3

Card 42/3

Card 43/3

Card 44/3

Card 45/3

Card 46/3

Card 47/3

Card 48/3

Card 49/3

Card 50/3

Card 51/3

Card 52/3

Card 53/3

Card 54/3

Card 55/3

Card 56/3

Card 57/3

Card 58/3

Card 59/3

Card 60/3

Card 61/3

Card 62/3

Card 63/3

Card 64/3

Card 65/3

Card 66/3

Card 67/3

Card 68/3

Card 69/3

Card 70/3

Card 71/3

Card 72/3

Card 73/3

Card 74/3

Card 75/3

Card 76/3

Card 77/3

Card 78/3

Card 79/3

Card 80/3

Card 81/3

Card 82/3

Card 83/3

Card 84/3

Card 85/3

Card 86/3

Card 87/3

Card 88/3

Card 89/3

Card 90/3

Card 91/3

Card 92/3

Card 93/3

Card 94/3

Card 95/3

Card 96/3

Card 97/3

Card 98/3

Card 99/3

Card 100/3

Card 101/3

Card 102/3

Card 103/3

Card 104/3

Card 105/3

Card 106/3

Card 107/3

Card 108/3

Card 109/3

Card 110/3

Card 111/3

Card 112/3

Card 113/3

Card 114/3

Card 115/3

Card 116/3

Card 117/3

Card 118/3

Card 119/3

Card 120/3

Card 121/3

Card 122/3

Card 123/3

Card 124/3

Card 125/3

Card 126/3

Card 127/3

Card 128/3

Card 129/3

Card 130/3

Card 131/3

Card 132/3

Card 133/3

Card 134/3

Card 135/3

Card 136/3

Card 137/3

Card 138/3

Card 139/3

Card 140/3

Card 141/3

Card 142/3

Card 143/3

Card 144/3

Card 145/3

Card 146/3

Card 147/3

Card 148/3

Card 149/3

Card 150/3

Card 151/3

Card 152/3

Card 153/3

Card 154/3

Card 155/3

Card 156/3

Card 157/3

Card 158/3

Card 159/3

Card 160/3

Card 161/3

Card 162/3

Card 163/3

Card 164/3

Card 165/3

Card 166/3

Card 167/3

Card 168/3

Card 169/3

Card 170/3

Card 171/3

Card 172/3

Card 173/3

Card 174/3

Card 175/3

Card 176/3

Card 177/3

Card 178/3

Card 179/3

Card 180/3

Card 181/3

Card 182/3

Card 183/3

Card 184/3

Card 185/3

Card 186/3

Card 187/3

Card 188/3

Card 189/3

Card 190/3

Card 191/3

Card 192/3

Card 193/3

Card 194/3

Card 195/3

Card 196/3

Card 197/3

Card 198/3

Card 199/3

Card 200/3

Card 201/3

Card 202/3

Card 203/3

Card 204/3

Card 205/3

Card 206/3

Card 207/3

Card 208/3

Card 209/3

Card 210/3

Card 211/3

Card 212/3

Card 213/3

Card 214/3

Card 215/3

Card 216/3

Card 217/3

Card 218/3

Card 219/3

Card 220/3

Card 221/3

Card 222/3

Card 223/3

Card 224/3

Card 225/3

Card 226/3

Card 227/3

Card 228/3

Card 229/3

Card 230/3

Card 231/3

Card 232/3

Card 233/3

Card 234/3

Card 235/3

Card 236/3

Card 237/3

Card 238/3

Card 239/3

Card 240/3

Card 241/3

Card 242/3

Card 243/3

Card 244/3

Card 245/3

Card 246/3

Card 247/3

Card 248/3

Card 249/3

Card 250/3

Card 251/3

Card 252/3

Card 253/3

Card 254/3

Card 255/3

Card 256/3

Card 257/3

Card 258/3

Card 259/3

Card 260/3

Card 261/3

Card 262/3

Card 263/3

Card 264/3

Card 265/3

Card 266/3

Card 267/3

Card 268/3

Card 269/3

Card 270/3

Card 271/3

Card 272/3

Card 273/3

Card 274/3

Card 275/3

Card 276/3

Card 277/3

Card 278/3

Card 279/3

Card 280/3

Card 281/3

Card 282/3

Card 283/3

Card 284/3

Card 285/3

Card 286/3

Card 287/3

Card 288/3

Card 289/3

Card 290/3

Card 291/3

Card 292/3

Card 293/3

Card 294/3

Card 295/3

Card 296/3

Card 297/3

Card 298/3

Card 299/3

Card 300/3

Card 301/3

Card 302/3

Card 303/3

Card 304/3

Card 305/3

Card 306/3

Card 307/3

Card 308/3

Card 309/3

Card 310/3

Card 311/3

Card 312/3

Card 313/3

Card 314/3

Card 315/3

Card 316/3

Card 317/3

Card 318/3

Card 319/3

Card 320/3

Card 321/3

Card 322/3

Card 323/3

Card 324/3

Card 325/3

Card 326/3

Card 327/3

Card 328/3

Card 329/3

Card 330/3

Card 331/3

Card 332/3

Card 333/3

Card 334/3

Card 335/3

Card 336/3

Card 337/3

Card 338/3

Card 339/3

Card 340/3

Card 341/3

Card 342/3

Card 343/3

Card 344/3

Card 345/3

Card 346/3

Card 347/3

Card 348/3

Card 349/3

Card 350/3

Card 351/3

Card 352/3

Card 353/3

Card 354/3

Card 355/3

Card 356/3

Card 357/3

Card 358/3

Card 359/3

Card 360/3

Card 361/3

Card 362/3

Card 363/3

Card 364/3

Card 365/3

Card 366/3

Card 367/3

Card 368/3

Card 369/3

Card 370/3

Card 371/3

Card 372/3

Card 373/3

Card 374/3

Card 375/3

Card 376/3

Card 377/3

Card 378/3

Card 379/3

Card 380/3

Card 381/3

Card 382/3

Card 383/3

Card 384/3

Card 385/3

Card 386/3

Card 387/3

Card 388/3

Card 389/3

Card 390/3

Card 391/3

Card 392/3

Card 393/3

Card 394/3

Card 395/3

Card 396/3

Card 397/3

Card 398/3

Card 399/3

Card 400/3

Card 401/3

Card 402/3

Card 403/3

Card 404/3

Card 405/3

Card 406/3

Card 407/3

Card 408/3

Card 409/3

Card 410/3

Card 411/3

Card 412/3

Card 413/3

Card 414/3

Card 415/3

Card 416/3

Card 417/3

Card 418/3

Card 419/3

Card 420/3

Card 421/3

Card 422/3

Card 423/3

Card 424/3

Card 425/3

Card 426/3

Card 427/3

Card 428/3

Card 429/3

Card 430/3

Card 431/3

Card 432/3

Card 433/3

Card 434/3

Card 435/3

Card 436/3

Card 437/3

Card 438/3

Card 439/3

Card 440/3

Card 441/3

Card 442/3

Card 443/3

Card 444/3

Card 445/3

Card 446/3

Card 447/3

Card 448/3

Card 449/3

Card 450/3

Card 451/3

Card 452/3

Card 453/3

Card 454/3

Card 455/3

Card 456/3

Card 457/3

Card 458/3

Card 459/3

Card 460/3

Card 461/3

Card 462/3

Card 463/3

Card 464/3

Card 465/3

Card 466/3

Card 467/3

Card 468/3

Card 469/3

Card 470/3

Card 471/3

Card 472/3

Card 473/3

Card 474/3

Card 475/3

Card 476/3

Card 477/3

Card 478/3

Card 479/3

Card 480/3

Card 481/3

Card 482/3

Card 483/3

Card 484/3

Card 485/3

Card 486/3

Card 487/3

Card 488/3

Card 489/3

Card 490/3

Card 491/3

Card 492/3

Card 493/3

Card 494/3

Card 495/3

Card 496/3

Card 497/3

Card 498/3

Card 499/3

Card 500/3

Card 501/3

Card 502/3

Card 503/3

Card 504/3

Card 505/3

Card 506/3

Card 507/3

Card 508/3

Card 509/3

Card 510/3

Card 511/3

Card 512/3

Card 513/3

Card 514/3

Card 515/3

Card 516/3

Card 517/3

Card 518/3

Card 519/3

Card 520/3

Card 521/3

Card 522/3

Card 523/3

Card 524/3

Card 525/3

Card 526/3

Card 527/3

Card 528/3

Card 529/3

Card 530/3

Card 531/3

Card 532/3

Card 533/3

Card 534/3

Card 535/3

Card 536/3

Card 537/3

Card 538/3

Card 539/3

Card 540/3

Card 541/3

Card 542/3

Card 543/3

Card 544/3

Card 545/3

Card 546/3

Card 547/3

Card 548/3

Card 549/3

Card 550/3

Card 551/3

Card 552/3

Card 553/3

Card 554/3

Card 555/3

Card 556/3

Card 557/3

Card 558/3

Card 559/3

Card 560/3

Card 561/3

Card 562/3

Card 563/3

Card 564/3

Card 565/3

Card 566/3

Card 567/3

Card 568/3

Card 569/3

Card 570/3

Card 571/3

Card 572/3

Card 573/3

Card 574/3

Card 575/3

Card 576/3

Card 577/3

Card 578/3

Card 579/3

Card 580/3

Card 581/3

Card 582/3

Card 583/3

Card 584/3

Card 585/3

Card 586/3

Card 587/3

Card 588/3

Card 589/3

Card 590/3

Card 591/3

Card 592/3

Card 593/3

Card 594/3

Card 595/3

Card 596/3

Card 597/3

Card 598/3

Card 599/3

Card 600/3

Card 601/3

Card 602/3

Card 603/3

Card 604/3

Card 605/3

Card 606/3

Card 607/3

Card 608/3

Card 609/3

Card 610/3

Card 611/3

Card 612/3

Card 613/3

Card 614/3

Card 615/3

Card 616/3

Card 617/3

Card 618/3

Card 619/3

Card 620/3

Card 621/3

Card 622/3

Card 623/3

Card 624/3

Card 625/3

Card 626/3

Card 627/3

Card 628/3

Card 629/3

Card 630/3

Card 631/3

Card 632/3

Card 633/3

Card 634/3

Card 635/3

Card 636/3

Card 637/3

Card 638/3

Card 639/3

Card 640/3

Card 641/3

Card 642/3

Card 643/3

Card 644/3

Card 645/3

Card 646/3

Card 647/3

Card 648/3

Card 649/3

Card 650/3

Card 651/3

Card 652/3

Card 653/3

Card 654/3

Card 655/3

Card 656/3

Card 657/3

Card 658/3

Card 659/3

Card 660/3

Card 661/3

Card 662/3

Card 663/3

Card 664/3

Card 665/3

Card 666/3

Card 667/3

Card 668/3

Card 669/3

Card 670/3

Card 671/3

Card 672/3

Card 673/3

Card 674/3

Card 675/3

Card 676/3

Card 677/3

Card 678/3

Card 679/3

Card 680/3

Card 681/3

Card 682/3

Card 683/3

Card 684/3

Card 685/3

Card 686/3

Card 687/3

Card 688/3

Card 689/3

Card 690/3

Card 691/3

Card 692/3

Card 693/3

Card 694/3

Card 695/3

Card 696/3

Card 697/3

Card 698/3

Card 699/3

Card 700/3

Card 701/3

Card 702/3

Card 703/3

Card 704/3

Card 705/3

Card 706/3

Card 707/3

Card 708/3

Card 709/3

Card 710/3

Card 711/3

Card 712/3

Card 713/3

Card 714/3

Card 715/3

Card 716/3

Card 717/3

Card 718/3

Card 719/3

Card 720/3

Card 721/3

Card 722/3

Card 723/3

Card 724/3

Card 725/3

Card 726/3

Card 727/3

Card 728/3

Card 729/3

Card 730/3

Card 731/3

Card 732/3

Card 733/3

Card 734/3

Card 735/3

Card 736/3

Card 737/3

Card 738/3

Card 739/3

Card 740/3

Card 741/3

Card 742/3

Card 743/3

Card 744/3

Card 745/3

Card 746/3

Card 747/3

Card 748/3

Card 749/3

Card 750/3

Card 751/3

Card 752/3

Card 753/3

Card 754/3

Card 755/3

Card 756/3

Card 757/3

Card 758/3

Card 759/3

Card 760/3

Card 761/3

Card 762/3

Card 763/3

Card 764/3

Card 765/3

Card 766/3

Card 767/3

Card 768/3

Card 769/3

Card 770/3

Card 771/3

Card 772/3

Card 773/3

Card 774/3

Card 775/3

Card 776/3

Card 777/3

Card 778/3

Card 779/3

Card 780/3

Card 781/3

Card 782/3

Card 783/3

Card 784/3

Card 785/3

Card 786/3

Card 787/3

Card 788/3

Card 789/3

Card 790/3

Card 791/3

Card 792/3

Card 793/3

Card 794/3

Card 795/3

Card 796/3

Card 797/3

Card 798/3

Card 799/3

Card 800/3

Card 801/3

Card 802/3

Card 803/3

Card 804/3

Card 805/3

Card 806/3

Card 807/3

Card 808/3

Card 809/3

Card 810/3

Card 811/3

Card 812/3

Card 813/3

Card 814/3

Card 815/3

Card 816/3

Card 817/3

Card 818/3

Card 819/3

Card 820/3

Card 821/3

Card 822/3

Card 823/3

Card 824/3

Card 825/3

Card 826/3

Card 827/3

Card 828/3

Card 829/3

Card 830/3

Card 831/3

Card 832/3

Card 833/3

Card 834/3

Card 835/3

Card 836/3

Card 837/3

Card 838/3

Card 839/3

Card 840/3

Card 841/3

Card 842/3

Card 843/3

Card 844/3

Card 845/3

Card 846/3

Card 847/3

Card 848/3

Card 849/3

Card 850/3

Card 851/3

Card 852/3

Card 853/3

Card 854/3

Card 855/3

Card 856/3

Card 857/3

Card 858/3

Card 859/3

Card 860/3

Card 861/3

Card 862/3

Card 863/3

Card 864/3

Card 865/3

Card 866/3

Card 867/3

ZAVAL'SKIY, A.N.

Utilization of gas in hothouses. Gaz.prom. 5 no.8:35-36 Ag '60.
(MIRA 13:10)
(Greenhouses) (Gas--Heating and cooking)

AUTHORS:

Shevchenko, V. B., Mikhaylov, V. A., Zaval'skiy, Yu. P.

SOV/78-3-8-36/43

TITLE:

The Extraction of Protactinium by Means of Alkyl Phosphoric Acids (Ekstraktsiya protaktiniya alkilfosfornymi kislotami)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 6, pp. 1955-1958 (USSR)

ABSTRACT:

The extraction power of some alkyl phosphoric acids with regard to protactinium from nitric acid solutions was studied. The extraction was carried out at 20°centigrade from 2N.HNO₃ medium. Dialkyl phosphate was found to be a particular effective extraction-agent for protactinium. Dialkyl phosphate proved to be a better extraction-agent for protactinium than for uranium. When extracting protactinium by means of dialkyl phosphoric acids it was found that the distribution coefficient is proportional to the square of the extraction concentration in the organic phase. It was further found that the type of the solvent does not exercise any essential influence on the extraction of protactinium. There are 1 figure, 5 tables, and 12 references, 2 of which are Soviet.

Chemico-Tech. Inst. im D. I. Mendeleev

Submitted Dec. 3 1957

UGAY, Ya.A.; ZAVAI'SKIY, Yu.F.; UGAY, V.A.; BOLKHOVITINA, N.B.

Production of indium phosphide by precipitation from a solution and
some of its properties. Izv. AN SSSR. Neorg. mat. 1 no.5:663-667 My
'65. (MIRA 18:10)

1. Voronezhskiy gosudarstvennyy universitet.

S/123/59/000/010/053/068
A004/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 10, pp. 186-187, # 38656

AUTHORS: Khitrik, S. I., Kazachkov, I. P., Zavaluyev, I. P., Babkov, T. M.,
Moshkevich, Ye. I.

TITLE: The Effects of Nonmetallic Impurities of Ferrochrome on the Quality of Stainless Steel ✓

PERIODICAL: Tekhn.-ekon. byul. Sovnarkhoz Zaproschek. ekon. adm. r-na, 1958,
No. 3, pp. 44-47

TEXT: The contents of nonmetallic impurities in carbon-free ferrochrome fluctuates within a wide range and principally is directly interdependent on the magnitude of Si-content in it. Si, lowering the solubility of O₂ in ferrochrome, combines with it and forms oxides. Holding the liquid ferrochrome in the ladle under a vacuum ensures a liberation of the gases and leads to an intensive agitation of the metal. The continuous exchange of metal being in contact with slag promotes the oxidation of Si by slag oxides. The passing over into the slag of suspended nonmetallic impurities in the metal agitated and cooled by vacuum treat-

Card 1/3

S/123/59/000/010/053/068
A904/A001

The Effects of Nonmetallic Impurities of Ferrochrome on the Quality of Stainless Steel

ment, is facilitated: In vacuum-treated ferrochrome the Si-content is considerably lowered and, correspondingly also that of the nonmetallic impurities (approximately 35%). Test ingots of the 2Kh13 (2Kh13) grade stainless steel, weighing 2.8 tons, were smelted in 20-ton electric furnaces from a fresh charge with additions of vacuum-treated and non-treated Xp00 (Khr00) grade ferrochrome to the nonreduced metal in amount of 25% of the melt weight. Vacuum-treated ferrochrome differs from the non-vacuum-treated by a lower content of nonmetallic impurities (on the average by 25%) and a somewhat higher Si-content (on the average by 0.12%). An analysis of the content of nonmetallic impurities in steel assays taken from the melt in the middle of the teeming, showed that the degree of contamination of ferrochrome by nonmetallic impurities affects also the purity of the steel, by 16% on the average. An increase of the Si-content in ferrochrome affects the degree of steel contamination with nonmetallic impurities. Si, introduced into steel, quickly oxidizes, and since the 2Kh13 grade steel is of a high ductility, it is difficult to float the impurities, which have been brought in by the ferrochrome and which were formed owing to Si-oxidation, into the slag. The

Card 2/3

S/123/59/000/010/053/068
A004/A001

The Effects of Nonmetallic Impurities of Ferrochrome on the Quality of Stainless Steel

remainder of nonmetallic impurities in steel depends on its degree of contamination at the moment of deoxidation by aluminum. A direct dependence has been established between the presence of fine cracks in rolled steel and the content of nonmetallic impurities in it and the Si-content brought in with ferrochrome. In order to obtain a high-quality 2Kh13 stainless steel, vacuum-treated ferrochrome with a Si-content of not higher than 0.7 - 0.75% should be used. There are 4 figures.

K. I. B.

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

ZAVALUYEV, I. P.

ДЕГАЗАЦИЯ СТАЛИ И СТАЛОВ

М.А.Шумков	Некоторые особенности газации и рассасывания ферромарганца.
П.В.Гонка	Влияние газации на легированность стали.
Ф.А.Седовский	Особенности рассасывания стали при длительной обработке пароманом.
Р.А.Радеев	Повышение качества бескислородного рельсового чугуна обработкой обратно- изоморфным методом в паромане.
П.В.Гонка	Норма газования производственных разливов жидкого чугуна и прокат- ки чугуна на трубу.
Г.Н.Овчинников	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
А.И.Григорьев	Влияние газации на свойства чугуна и стекла.
А.И.Смирнов	Повышение качества бескислородного рельсового чугуна обработкой обратно- изоморфным методом в паромане.
М.А.Кудинов	Влияние газации производственных разливов жидкого чугуна и прокат- ки чугуна на трубу.
Д.И.Чижевский	Влияние газации на свойства чугуна и стекла.
В.И.Литовин	Влияние газации на свойства чугуна и стекла.
А.И.Лягутов	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
Г.И.Овчинников	Норма газования производственных разливов жидкого чугуна и прокат- ки чугуна на трубу.
Н.А.Кудинов	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
Г.А.Седовский	Влияние газации на свойства чугуна и стекла.
В.И.Демидов	Влияние газации на свойства чугуна и стекла.
В.А.Корнеев	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
Г.И.Андреев	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
В.Г.Чирков	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
И.В.Гонка	Влияние газации на свойства чугуна и стекла.
З.И.Седовский	Влияние газации на свойства чугуна и стекла.
Г.И.Борисов	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
Н.Г.Белогурин	Влияние легирования на свойства стекла и стекло-чугунных сплавов.
А.С.Капанин	Влияние легирования на свойства стекла и стекло-чугунных сплавов.

17

report submitted for the 5th Physical Chemical
Conference on Steel Production, Moscow-- 30 Jun 1959.

ZAVANKOV, A.B.; ZUBAKOVA, L.B.; PETROVA, N.M.

Synthesis and study of copolymers of 2-methyl-5-vinylpyridine with mono-, di-, and triethylene glycol dimethacrylates. Izv.vys.ucheb. zav.;khim. i khim.tekh. 6 no.2:294-298 '63. (MIRA 16:9)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni D.I.Mendelejeva, kafedra tekhnologii plasticheskikh mass.
(Pyridine) (Ethylene glycol) (Methacrylic acid)

ZAVARENKIY, Ye.F.; STAROVYOT, O.Ye.; FEDOROV, S.A.

Long-period Rayleigh waves from the Alaska earthquake of March
28, 1964. Izv. AN SSSR, Ser. geofiz. no.12:1826-1831 D '64.
(MIRA 18:3)

1. Institut fiziki Zemli AN SSSR.

ZAVARIKHINA, G. B.

USSR/Chemistry - Cyclic compounds
Chemistry - Sulfuric acid

Apr 47

"The Coloring of Polycycloketone Solutions with Sulfuric Acid," A. M. Lukin, G. B. Zavarikhina, 5 pp

"CR Acad Sci" Vol XVI, No 2

Discussion of the phenomenon in which polycyclic compounds are colored by sulfuric acid. Three graphs showing the variation in color (millimicrons of wave length) with other characteristics, obtained by means of the spectrodensograph of Goldberg for various compounds.

PA 11T71

Sulfonoxides of polycyclic ketones. A. M. Lukin and G. B. Zavarikhina (Inst. of Org. Chem., Acad. Sci. U.R.S.S.), *Comp. rend. acad. sci. U.R.S.S.*, 55, 617-20 (1947); cf. Coutout and Bonnet, *J. Am. Chem. Soc.*, 70, 2173, and preceding abstr.—Polycyclic ketones (**I**) in the finely divided state or in an inert solvent, such as polychlorinated benzene, form complexes (sulfonoxides) with gaseous SO_2 (**II**). The sulfonoxides are much more highly colored than the initial ketones and are frequently insol. in the solvent in which they are formed. They are stable at ordinary temps., but decom., at about 100° or in the presence of water. The molar proportion of **II**/**I** varies with the constitution of **I** but is 1.5 in the cases of benzonaphthone ($\text{C}_14\text{H}_8\text{O}$) and benzanthrone ($\text{C}_{14}\text{H}_8\text{O}_2$) and 2.0 in the case of *trans*-dibenzopyrenequinone ($\text{C}_{20}\text{H}_8\text{O}_2$) and *trans*-di-benzanthrone. W. S. Port

W. S. Pitt

ABR-1A - METALLURGICAL LITERATURE CLASSIFICATION												FROM BOMIN											
FROM LIBRARY												BIBLIOGRAPHY											
SEARCHED												INDEXED											
SERIALIZED												FILED											
JULY 19 1968												JULY 19 1968											

Gf

3

Color studies of sulfuric acid solutions of polycyclic ketones. A. M. Lukin and G. D. Zavarikhina. *Compt. rend. acad. sci. U.R.S.S.*, 58, 173-81 (1947) (in French). Theories of coloration of H_2SO_4 solns. of polycyclic ketones are reviewed. The SO_4 -complex theory is supported by absorption-spectrum measurements, which have shown that the absorption spectra of solns. of the SO_4 -complex of pyranthrone, dibenzanthrone, and benzophenone in polychlorobenzene were similar to the absorption spectra of solns. of salts of these compds. dissolved in 93% H_2SO_4 . M. O. Webb

AIAA-AEC-REFEEDBACK LITERATURE CLASSIFICATION

Organic Chemistry - 10

CA

Sulfone oxides of polycycloketones as intermediates in sulfonation with sulfur trioxide. A. M. Lukin and G. P. Zayarkina. *Doklady Akad. Nauk SSSR* **58**, 1005-8 (1947). Passage of 0.01 g. vaporized SO₃ through 2.3 g. powdered benzanthrone at 0° over 20-30 min. gave a red coloration and after air-blowing the product was washed with CCl₄, leaving behind 3.07 g. sulfonoxide, C₂₁H₁₄O₄S (92.0%). The sulfonoxide kept 2 hrs. at 170-80° and the product treated with H₂O gives 20% benzanthrone and 70.8% benzanthronesulfonic acid, isolated as the Ba salt. Only traces of the sulfonic acid form during the reaction with SO₃ if moisture is kept out. The limiting amt. of SO₃ that can react is 2 moles, i.e. with formation of a disulfide, in the cases of *trans*-dibenzanthrone, *trans*-benzopyrenequinone, benzanthrone, and benzophenone. Direct action of SO₃ on the polycyclic ketones causes some oxidative changes.

G. M. Koslapoff

CA

10

Sulfates of polycycloketones. A. M. Lurio and O. P. Zavarzin. - Dokl. Akad. Nauk S.S.R. 59, 185-8 (1949). - *Pfeiffer's, bromaphthalein* (Org. Melchiorbernd, p. 397 (C.A. 42, 8823)), according to which sulfates of polycycloketones are intermediates in the sulfonation of such ketones, must be rejected as untenable. More probably, in the high concn. of H_2SO_4 necessary for reaction, the sulfonates (C.A. 42, 8802) of the ketones are the true intermediates; this is shown indirectly by color comparison of such ketone sulfates and sulfonates (C.A. 42, 456). It was found that free H_2SO_4 may be washed away from the ketone sulfates most readily by means of Ac_2O at -15° , when the sulfates are not affected by it; the Ac_2O traces can be removed by CCl_4 washing. Pyranthrone in 80.8% H_2SO_4 gave a sulfate $2H_2N_2S_2O_4$, blue-violet crystals, while 83.0% H_2SO_4 gave brown $R_2H_2S_2O_4$. Thus a given ketone can form more than 1 sulfate, each of definite color; sulfonates, however, have almost the same color in spite of different compns., which may arise, this color being that of the soln. of the ketone in H_2SO_4 . Boiling sulfates of pyranthrone or benzomaphthone at 200° failed to give any sulfonic acids; the sulfates were perfectly stable under dry conditions at this temp.

G. M. Kosolapoff

ZAVARIKHINA, G. B., and LUKIN, A. M.

"Concerning New Reagents for Colorimetric Determination of
Beryllium, Beryllons I and II," by A. M. Lukin and G. B.
Zavarikhina, All-Union Scientific Research Institute of Chem-
ical Reagents, Zhurnal Analiticheskoy Khimii, Vol 11, No 4,
Jul/Aug 56, pp 393-399

The properties and synthesis of two new colorimetric reagents for beryllium, 8-hydroxynaphthalene-3,6-disulfonic acid-(1-azo-2')-1'-hydroxy-9-aminonaphthalene-3',6'-disulfonic acid (Beryllon I) and 8-hydroxynaphthalene-3, 6-disulfonic acid-(1-azo-2')-1',8'-dihydroxynaphthalene-3',6'-disulfonic acid (Beryllon II), are described.

Sum 1239

LUKIN, A.M.; SMIRNOVA, K.A.; ZAVARIKHINA, G.B.

New reagent for the photometric and complexonometric
determination of calcium. Zhur. anal. khim. 18 no.4:444-449 Ap '63.
(MIRA 16:6)

1. All-Union Scientific-Research Institute of Chemical Reagents
and Chemical Substances of Special Purity, Moscow.
(Calcium--Analysis) (Complexons) (Photometry)

ZAVARIKHINA, G.B.

LUKIN, A.M.; ZAVARIKHINA, G.B.

Gallion - a new reagent for the photometric determination of gallium. Report No.1: The influence of substitutes on the properties of organic reagent [with summary in English]. Zhur. anal. khim. 13 no.1:66-71 Ja-F '58. (MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov, Moskva.
(Sulfonic acid) (Gallium) (Photometry)

LIKIN, A.M.; KALININA, I.D.; ZAVARIKHINA, G.B.

Synthesis of α -aminobenzene phosphinic acid and its derivatives.
Zhur. ob. khim. 30 no.12;4072-4076 D '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh
reaktivov.
(Phosphinic acid)

S/079/60/030/012/022/027
B001/B064

AUTHORS: Lukin, A. M., Kalinina, I. D., and Zubrikhina, G. B.

TITLE: On the Synthesis of o-Aminobenzene Phosphonic Acid and Its Derivatives

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 12, pp. 4072-4076

TEXT: The only method of synthetizing o-aminobenzene phosphonic acid ($\text{o-NH}_2\text{C}_6\text{H}_4\text{PO}_3\text{H}_2$) which has hitherto been published was repeated by the authors in several experiments, however, it could not be confirmed. The method consists in substituting bromine in the o-bromobenzene phosphonic acid by the amino group (Ref.2). The reaction proceeds in two directions: 1) under formation of o-hydroxybenzene phosphonic acid and 2) under instantaneous hydrolysis of the C-P bond of the product to be expected (Refs.3-5). On the basis of the experimental results of Refs.6-9 the authors first attempted to synthesize o-aminobenzene phosphonic acid according to the method by G. O. Doak, L. D. Freedman (Ref.10) from o-nitroaniline. In this experiment, however, no further nitroproduct could be obtained besides o-nitrophenol, whereas in the mother liquor a

Card 1/3

On the Synthesis of o-Aminobenzene Phosphonic Acid and Its Derivatives

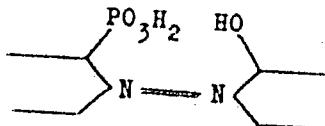
S/079/60/030/012/C22/C27
B001/B064

compound which could be diazotated was obtained. The corresponding amine could be isolated in the form of an azo dye which is a mixture of two azo dyes: the coupling product of chloro aniline and the amine containing the chlorine and the phosphone group. Further experiments showed that the latter amine is the 2-amino-5-chlorobenzene phosphonic acid (I). The authors assumed that the presence of a phosphone group in ortho position to the amino group increases the complex-forming capability of amine (I) as compared with chloro aniline. For this reason, they studied a method allowing the isolation of amine (I) directly as complexes with heavy metals. This experiment succeeded with the copper complex from which the acid was isolated in chemically pure state. In this case the necessary amount of CuCl (Ref.10) had to be increased by 3.5 times. Thus, the isolation of amine (I) was possible with an optimum yield of 15% (5% as azo dye). Besides chloro aniline, amine(I), and o-nitrophenol a series of side products was identified. This reaction is very complex. From the acid obtained 6 azo dyes were synthetized containing the ring-forming structure

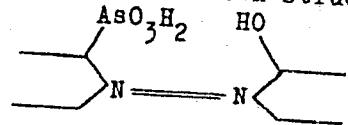
Card 2/3

On the Synthesis of o-Aminobenzene
Phosphonic Acid and Its Derivatives

S/079/60/030/012/022/027
B001/B064



which is similar to the well known structure



(Refs. 11-19). The analytical properties of the azo compounds obtained will be further studied. G. P. Stepanova took part in the experimental work. There are 22 references: 12 Soviet, 9 US, and 1 British.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut
khimicheskikh reaktivov (All-Union Scientific Research
Institute of Chemical Reagents)

SUBMITTED: January 3, 1960

Card 3/3

LUKIN, A.M.; ZAVARIKHINA, G.B.; SIMONOVA, N.S.

Analysis of aryl phosphinic acids. Trudy IREK no.23:106-112
'59. (MIRA 13:7)
(Phosphinic acids)

ZAVARZKIN, N. A.

PLACE 1 BOOK INFORMATION

SOV/310

Kiev: Vsesoyuzny nauchno-tekhnicheskii iazykostatisticheskii institut
Veshchevskogo, vostochny otdel'nost' i rech'nost' (High Party Committee
and Scientific Collection of Archaic) Naukova, Zinatisticheskai
156 p. (Series: Lektsii, vyp. 2) Arxiv dlya iznansk. 1,700
kopien printed.

Promotional Agency: USSR, Soviet Ministry, Gosizdat, Ministry Knizhet po Nauke.

Ed.: Prof. I. V. Sivchenko, Tech. Ed.: Yu. P. Strelak; Editorial Board of Series:
T. G. Koval', V. M. Olsuf'ev, N. P. Lutovitsa, N. P. Lebedeva (Lebed'), N. A. Kuz'ma,
O. S. Radchenko, O. I. Mikhaylov, G. A. Peresov (Peresov Rep.-Ed.), and
I. D. Shchegolev.

PURPOSE: This book is intended for personnel of chemical research and industrial
chemical laboratories.

CONTENTS: The book contains 56 articles by authors of the following Institute
Institute for Chemical Reagents (ICR). Testing methods which may be adopted
by different branches of industry to produce, manufacture, and control inorganic
and organic substances of high purity. Figures, tables, and references
accompany each article. No personalities are mentioned.

Section 1.0: Chemical Methods of Determining Small Amounts of Impurities
in a Number of High-Purity Substances

Bogorodskii, G. F.: Colorimetric Determination of Heavy Metals with the Aid
of Chelating Agents 23
Bulakhov, A. V., A. M. Vol'kova, and G. S. Flerovskaya: Determination of Active
Chlorine in Sodium Toluene Sulfide Crystals Activated by Radiation 96
Larin, A. M., V. N. Likhachev, and E. D. Stepanov: On the Problem of As-
suming Any Phenomenon's Acids 102
Prishina, Z. I., and R. G. Polivnenko: Special Determination of Small
Amounts of Trace Elements in Barium 123

Rosenthal, Yu. A., and O. F. Serebrennikov: Some Special Features
of the Properties of Barium-Aluminum Oxides as a Catalysts
Base Indicators 125
Rosenthal, Yu. A.: Apparatus and Reagents for Luminescence Analysis 129
Sokolova, V. M., and V. N. Danilevskaya: Synthesis of Some Arsenic Compounds
and Their Application in Medicine 139

Rosenthal, Yu. A.: The Connection Between Fluorescence and Structure in
Organic Compounds. Indicators and Reagents 143
Shmelev, Yu. A., and I. N. Shchukina: Determination of the Luminescent
Properties of the Group of the Sodium Salt of Catechol (Catechol)
ethanolamine and catechol acid 146

27. REFERENCES

Sreda, V. G.: Work at the Institute for Chemical Problems for the USSR 157
AVAILABILITY: Library of Congress 159

Card 6/6

JUL 1969

Zavarikhina, G. B.

AUTHORS: Lukin, A. M., Zavarikhina, G. B.

70-1-10/26

TITLE: Gallion - a New Reagent for the Photometric Determination
of Gallium (O novom reaktivem dlya fotometricheskogo
opredeleniya galliya - gallione)
1. Concerning the Problem of the Influence Exerted by
Substituents Upon the Properties of Organic Reagents
(Soobshcheniye 1. K voprosu o vliyanii zamestitelye na
svoystva organicheskikh reaktivov)

PERIODICAL: Zhurnal Analiticheskoy Khimii, 1958, Vol. 13, Nr 1,
pp. 66-71 (USSR)

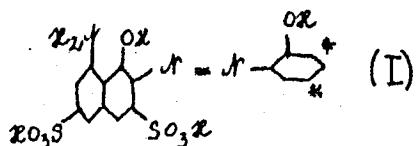
ABSTRACT: The authors investigated monoazo dyes which contain the
o - o' - dioxyazo grouping as characteristic analytically
functional groups. From the large number of representatives
of this series of compounds the authors especially in-
vestigated those obtained by the coupling of diazo
compounds of o-aminophenol and its substituted derivatives
with β -naphthol and its sulfonic acids, chromotropic acid and
H-acid, as well as a number of other azo compounds. In the
present article only the results of the coupling products

Card 1/5

Gallion - a New Reagent for the Photometric Determination of Gallium. 75-1-10/26

1. Concerning the Problem of the Influence Exerted by Substituents Upon the Properties of Organic Reagents

with H - acid in an alkaline solution are given (formula I)

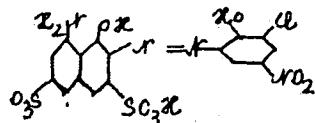


NO_2 , HSO_3 and Cl were taken as substituents of o-amino-phenol. Only the mono- and di-substituted o-aminophenols which exclusively contain the substituents in an ortho- or para-position to the hydroxyl group were investigated. ($*$ in formula I). The compound of formula I is of no importance as a reagent without further substituents. But in an acid aqueous solution in the presence of 50 γ gallium it changes its color from raspberry red to reddish-violet. According to this principle the influence of substituents on color by

Card 2/5

Gallion - a New Reagent for the Photometric Determination 75-1-10/26
of Gallium 1. Concerning the Problem of the Influence Exerted by
Substituents Upon the Properties of Organic Reagents

reaction with gallium ions was determined. Investigations showed that the nature, number and position of the introduced substituents exercise a strong influence upon the analytic properties of the azo compound. A nitro group in ortho-position to the hydroxyl group exercises a negative influence upon the analytic properties. Only 2 of the 12 compounds investigated showed usable properties for the photometric determination of gallium. In both cases the nitro group is in a para-position to the hydroxyl group. One of these compounds is especially distinguished by the contrast of coloring and deserves practical interest for the photometric gallium in rocks. This compound is called "gallion" (in chemical industry it is known under the name gallion MPEA) and has the following constitution:



Card 3/5

Gallion - a New Reagent for the Photometric Determination
of Gallium.

75-1-10/26

1. Concerning the Problem of the Influence Exerted by
Substituents Upon the Properties of Organic Reagents

It is a brick-red finely crystalline powder. The aqueous solution has a bluish crimson-red color. Gallion is practically insoluble in acetone, benzene and carbon tetrachloride. The change of color with gallium takes place from raspberry red to dark blue. The sensitivity of the determination of gallium with gallion amounts to 0,2% in 5 ml. Gallium is an example for the fact that the introduction of substituents is capable of transforming an initial compound which possesses no valuable analytic properties and therefore no practical importance into an important reagent. The best reagent for the photometric gallium determination hitherto described in publications is quinalizarin (references 36, 37). A comparison between gallion and quinalizarin shows that gallion possesses the better properties (reference 41). The synthesis of gallion is exactly described. It was performed under the participation of N. S. Simonovoy.

Card 4/5

Gallion - A New Reagent for the Photometric Determination of Gallium 75-1-10/26

1. Concerning the Problem of the Influence Exerted by Substituents Upon the Properties of Organic Reagents

There are 1 figure, 1 table, and 57 references, 18 of which are Slavic.

ASSOCIATION: All-Union Scientific Research Institute for Chemical Reagents, Moscow (Vsesoyuznyy nauchno - issledovatel'skiy institut khimicheskikh reaktivov, Moskva)

SUBMITTED: August 28, 1956

AVAILABLE: Library of Congress

1. Gallium - Determination
2. Gallion - Reagent
3. Photometry - Applications

Card 5/5

IUKIN, A.M.; ZAVARIKHINA, G.B.

New reagents for colorimetric determination of beryllium, the
beryllon I and II [with English summary in insert]. Zhur.anal.
khim.11 no.4:393-399 Jl-Ag '56. (MLRA 9:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh
reaktivov, Moskva.
(Beryllium) (Colorimetry)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

ZAVARIN, A. A.

"Outline of the evolutionary histology of the nervous system", Izbr. trudy (Selected Works), Vol. 3, p 361, 1950.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

87456

8/057/60/030/012/003/011
B019/B056

26.23/1

AUTHORS: Klukhikh, V. A., Zayarin, D. Ye., Komar, Ye. G.,
Larionov, B. A., Monoszon, N. A., Skotnikov, V. V., and
Stolov, A. M.

TITLE: An Investigation of the Electric and Magnetic Discharge
Characteristics of "Al'fa" Research Installation

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,
pp. 1404 - 1414

TEXT: The authors studied the electric and magnetic discharge characteristics under single-period conditions. The total discharge current is measured by means of a Rogovskiy girdle, having the shape of a spiral made of nichrome. The signal was integrated in an RC element, fed to one of the two channels of a double-beam oscilloscope. In a similar manner, the field strength of the rotational field was measured. According to voltage and current oscillograms the mean resistance of the plasma column and the energy generated in it were calculated, a constant inductivity of the discharge coil being assumed. Accordingly, the

Card 1/3

87456

S/057/60/030/012/003/011
B019/B056

An Investigation of the Electric and
Magnetic Discharge Characteristics of
"Al'fa" Research Installation

discharge column has an inductivity of $(2-3) \cdot 10^{-6}$ henries. Furthermore, an electron- and ion temperature of about $40 \cdot 10^6$ °K was obtained with a pressure of $2 \cdot 10^{-4}$ mm Hg and a discharge energy of about 100 kilojoules. The distribution of the magnetic field over the cross section of the chamber was determined with probes. The results obtained are graphically represented in Fig. 9. It was found that the electric current lines in the discharge are of helical character similar to the shape of the magnetic field, which leads to an increase of the longitudinal magnetic flux in the chamber. In order to conserve current constancy, it is necessary that rotational currents be induced in the walls of the outer chamber. This leads to a change in the field direction of the longitudinal magnetic field in the exterior discharge ranges and in the space between outer and inner chamber. The already mentioned increase of the field strength of the longitudinal magnetic field corresponds to a maximum azimuthal current in the plasma of $(2-2.5) \cdot 10^6$ a. Exactly this current must be induced in the walls of

Card 2/3

87156

An Investigation of the Electric and
Magnetic Discharge Characteristics of
"Al'fa" Research Installation.

8/057/60/030/012/003/011
B019/B056

the outer chamber. From an analysis of the distribution curves of the magnetic fields and the discharge currents, it is found that the density vector of the electric current has a direction over the total discharge cross section, which nearly agrees with the direction of the magnetic field. Further, some experimental conditions were determined, under which the discharge current in the outer regions of discharge has a direction inverse to the discharge current in the inner regions. There are 11 figures, 1 table, and 6 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury (Scientific Research Institute of Electro-physical Apparatus)

SUBMITTED: July 15, 1960

Card 3/5

ZAVARIN, G. D.

392

PHASE I BOOK EXPLOITATION

Zavarin, Georgiy Dmitriyevich

Usiliteli (Amplifiers) Moscow, Voyen. izd-vo Min-va obor. SSSR, 1957. 79 p.

Ed.: Vladimirov, V. T., Lt. Col; Technical Editor, Volkova, V. Ye.

PURPOSE: The booklet, published in the series "Radiolokatsionnaya tekhnika" (Radar Technique), is intended for officers concerned with the operation of radio engineering equipment, and is recommended also for a wide circle of readers wishing to acquaint themselves with the details of separate radar unit and component operations.

COVERAGE: The booklet describes in a popular form the input systems of radar receivers, H-F and I-F amplifiers, and also video amplifiers. It concludes with a table of basic parameters for receiving tubes, including low-power amplifiers. A list of booklets in the "Radar Technique" series is given on the inside back cover.

Card 1/3

392

Amplifiers

TABLE OF

CONTENTS: Input systems of Radar Receivers

1.	General information	3
2.	Input systems of metric range receivers	7
3.	Input systems of decimetric range receivers	13

H-F Amplifiers

1.	General information	16
2.	H-F amplifiers with grounded cathodes	19
3.	Grounded-grid triode H-F amplifiers	25
4.	Two-stage H-F amplifying circuit with low tube noise	30
5.	Traveling-wave tube as H-F amplifier	31

I-F Amplifiers

1.	General information	33
2.	Basic electric factors of I-F amplifiers	35

Card 2/3

Amplifiers

392

3. I-F Amplifiers of the first type	39
4. I-F Amplifiers of the second type	45
5. I-F Amplifiers of the third type	48
6. I-F Amplifiers with negative feedback	55
7. I-F Amplifying stages used for cable connections	57
8. Design of I-F amplifiers	59

Video Amplifiers

61

1. General information	61
2. Video amplifier resistance-coupled stage	61
3. Pulse-signal distortions in amplifying resistance-coupled stages	65
4. Methods of correcting video amplifier characteristics	68
5. Cathode-follower amplifying stage	71
	75

Table of Basic Data for Receiver Amplifier Vacuum Tubes

AVAILABLE: Library of Congress 79

Card 3/3

JJP/fal
6-16-58

MARTYNOV, Valentin Alekseyevich; SELIKHOV, Yuriy Ivanovich;
Prinimali uchastiye: MALYUTIN, V.A.; ILLIS, B.P.;
ZAVARIN, G.D., red.; KUCHUMOVA, K.I., red.

[Panoramic receivers and spectrum analyzers] Panoramnye
priemniki i analizatory spektra. Moscow, Sovetskoe radio,
1964. 407 p. (MIRA 17:12)

ORLOVSKIY, Ye.L.; KHALFIN, A.M.; KHAZOV, L.D.; ZAVARIN, G.P.;
KRUSSER, B.V.; SHCHELOVANOV, L.N.; TARANTSOV, A.V., red.;
KUKOLEVA, T.V., red.; GUROV, B.V., tekhn. red.

[Theoretical principles of electrical transmission of images;
television and phototelegraphy] Teoreticheskie osnovy elektri-
cheskoi peredachi izobrazhenii; televizion i fototelegrafija.
[By] E.L.Orlovskii i dr. Pod obshchei red. A.V.Tarantsova.
Moskva, Sovetskoe radio. Vols. 1 - 2. 1962. (MIRA 15:10)
(Television) (Phototelegraphy)

ZAVARIN, A.P., dots.

Errors in measuring distances with a short-base distance gauge.
Nauch. trudy Samark. inst. sov. torg. 8:267-279 '57.

(MIRA 12:7)

(Distances--Measurement)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

ZAVARIN, M.

Fixing ammonia return valve stops. Khol.tekh.33 no.1:69 Ja Mr '56.
(Compressors) (Valves) (MIRA 9:7)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

YANOVSKIY, V.Ya., kand.tekhn.nauk; ZAVARIN, V.A.; inzh.

The floating fish canning plant "Andrei Zakharov."
Sudostroenie 27 no.9:1-10 S '61. (MTRA 14:11)
(Fish processing plants)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

SHIERN, M.A.; ZAVARINA, L.P.

Rapid method for determining the water soluble salt content of pigments. Lakokras.mat.i ikh prim. no.1:61-62 '62. (MIRA 15:4)

1. Leningradskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta lakokrasochnoy promyshlennosti.
(Pigments) (Salts)

BERLIN, Ye.M.; ZAVARINA, M.G.

A composite electric current regulator for the d.c. power transmission system between Volgograd and the Donets Basin. Izv. NIIPT no. 9:86-107 '62. (MIM 15:12)
(Electric power distribution—Direct current)

BERLIN, Ye.M.; ZAVARINA, M.G.; SHIPULINA, N.A.

Operating conditions and regulating system for the transmission
of direct current with intermediate substations connected in parallel.
Inv. NIIP no.4:5-18 '59. (MIRA 13:2)
(Electric substations)

L 19293-63 EWT(1)/BDS ASD/AFFTC/ESD-3 RB
ACCESSION NR: AR3006554

8/0169/63/000/008/B033/B033

~~XX~~ B

SOURCE: RZh. Geofizika, Abs. 8B218

AUTHOR: Zavarina, M. V., Yemel'yanova, M. Z.

TITLE: Experimental forecasting of airplane buffeting according to improved Richardson criteria

CITED SOURCE: Sb. Materialy* Nauchn. konferentsii po aviat. meteorol., M., Gidrometeoizdat, 1963, 53-58

TOPIC TAGS: Richardson number, air bumpiness, aircraft buffeting, tropospheric sounding, aerological sounding, isobaric surface

TRANSLATION: The critical value of the Richardson number (R_i) was assumed to be equal to one in R_i calculation for layers 1 km thick, and to two in its calculation for layers located between principal isobaric surfaces. R_i values calculated according to aerological sounding data are compared with conditions of airplane flights (by the presence and absence of buffeting), which were made near the sounding points (at distances of not more than 150 km) and 3-4 hours before

Card 1/2

L 19293-6
ACCESSION NR: AR3006554

or after the radio-sonde launching. Sounding data was analyzed in Leningrad, Minsk and Vnukovo. The correctness of the diagnosis of airplane buffeting and its absence, as a rule exceeds 90%. The mean value of correctness coefficient Q introduced by A. M. Obukhov, was 0.84 and 0.74 correspondingly for the lower and upper troposphere. L. Matveyev.

DATE ACQ: 06Sep63

SUB CODE: AS

ENCL: 00

Card: 2/2

ZAVARINA, M. V.

"Investigation of Variable Winds in the Free Atmosphere", Works of Sci-Res Institution
of the Main Administration of the Hydrometeorological Service SSSR, Series 1, No 21,
1946 (20-64).
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

ZAVARINA, M. V.

"Investigation of the Thermic Field in the Free Atmosphere According to Given Aerological Observations of the European Territory of SSSR and Germany," Works of Sci-Res Institution of the Main Administration of the Hydrometeorological Service SSSR, Series 1, No 21, 1946 (130-145).
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

Meteorological Abst.
Vol. 4 No. 11
Nov. 1953
Structure and Physics
of the Atmosphere

4.11.90

Zavarzhev, M. V., *Stroenie atmosfery. [Structure of the atmosphere.]* Leningrad, Gidromet. Izdat, 1948. 51 p. 21 figs, tables. DLC-A semi-popular but critical discussion of the upper atmosphere and its structure, composition and exploration for observers all over the Soviet Union who wish to understand something about the scientific knowledge which exists today on that plane of meteorology. A historical sketch tells of a work in "Aerology" published in Rome in 1611, and of numerous attempts to fly (from 966 to 1935) or explore the atmosphere by balloon or kite, airplane and radiosonde (first ascent in the world Jan. 30, 1930 at Pavlovek near Leningrad). More recent methods for sounding the upper atmosphere are described; searchlight beams, cosmic rays, rockets (American V-2 flights are enumerated), ozone absorption of UV-rays, acoustical and radio-propagation techniques, study of meteors, auroras, noctilucent clouds, etc. An up-to-date model of the atmosphere to 300 km (with all the details) is presented. *Subject Headings:* 1. Atmospheric models 2. Atmospheric structure 3. Upper atmosphere research 4. Textbooks. --M.R.

Geo.

1. ZAVARINA, M.V.

2. USSR (600)

"On the Exactness of Wind Measurements By Way of Pilot Balloon Observations From One Point." Trudy GGO, Issue 9, 1948 (47-63)

9. Meteorologiya i Gidrologiya, No. 3, 1949. ■ Report U-2551. 30 Oct 52

ZAVARINA, M. V.

Science

Wind; Veter. Leningrad, Gidrometeorologicheskoe izd-vo, 1951. (Nauchno-populiarnaya biblioteka).

Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

24

(12) Geo

Meteorological Abst.
Vol. 5 No. 1
Jan. 1954
Part 1
Structure and Physics
of the Atmosphere

3.1-123 ✓
Berliand, M. E. and Doliryshman, E. M., Sovetskane po voprosam tekusovaniia
transformatsii vozdukh. [Conference on the question of investigating the transformation of
air.] Meteorologiya i Gidrologiya, No. 8:49-50, Aug. 1952. DLC—Review of meetings held
by the Central Geophysical Observatory in cooperation with the Central Aerological Ob-
servatory, Central Institute of Weather Forecasting and Geophysical Observatories of
Tashkent, Kiev and Minsk. The adiabatic air transformation (report by S. S. Galimzayev),
heat transformation of cold air masses (by M. V. Zavarina), heat transformation of air
masses (by M. E. Berliand) and goniometric investigations of free atmosphere (by V. G.
Kastroy and E. A. Lopukhina) were discussed. Special reports on air transformation
over the irrigated regions were made by P. A. Vronyshev (geophysical problem) and M. I.
Iudin (change of climate). Subject Headings: 1. Air masses. 2. Energy transformation
3. Conferences.—N.T.Z.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

ZAVARINA, M.V.
ZAVARINA, M.V.; MIKHEL, V.M.

Extrapolation of winds by altitude. Trudy 600 no.32:34-46 '52
(MIRA 11:1)
(Winds)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

*Zav'yan'd, M.V.
BERLYAND, M.Ye.; ZAVARINA, M.V.

Analysis of the heat transformation of moving air masses.
Trudy OGQ no.33:57-70 '52. (MIRA 11:1)
(Atmospheric temperature) (Winds)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

ZAVARINA, M.V.

Dry winds in 1949. Trudy GGO no. 36:127-136 '52.
(Winds) (MIRA 11;1)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

FEB 5 1979

ZAVARINA, M.V.

ZAVARINA, M.V.

Changes in the heat and moisture content of air masses moving
over a uniform underlying surface. Trudy GGO no.48:56-64
'54. (MIRA 10:7)

(Atmosphere)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

ZAVARINA, M. V.

Drought and measures against it Moskva, Gos. izd-vo geogr. lit-ry, 1954
84p. (55-59679)

QC929.D823

ZAVARINA, M.V.

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P.; BUCHINSKIY, I.Ye.;
SEYANINOV, G.T., professor; BOSHNO, L.V.; ALISOV, B.P.; BIRYUKOV,
N.N.; GAL'TSOV, A.P.; GRIGOR'YEV, A.A., akademik; EYGENSON, M.S.,
professor; MURETOV, N.S.; KHROMOV, S.P.; BOGDANOV, P.N.; LEBEDEV,
A.N.; SOKOLOV, V.N.; YANISHEVSKIY, Yu.D.; SAMOYLENKO, V.S.; USMA-
NOV, R.F.; CHURUKOV, L.A.; TROTSENKO, S.Ya.; VANGENGEYM, G.Ya.;
SOKOLOV, I.F.; STYRO, B.I.; TEMNIKOVA, N.S.; ISAYEV, E.A.; DMITRIYEV,
A.A.; MALYUGIN, Ye.A.; LIIDEM, Ye.K.; SAPOZHNIKOVA, S.A.; RAKIPO-
VA, L.R.; POKROVSKAYA, T.V.; BAGDASARYAN, A.B.; ORLOVA, V.V.; RU-
BINSHTEYN, Ye.S., professor; MILEVSKIY, V.Yu.; SHCHERBAKOVA, Ye.Ya.;
BOCHKOV, A.P.; ANAPOL'SKAYA, L.Ye.; DUNAYEVA, A.V.; UTESHEV, A.S.;
RUDNEVA, A.V.; RUDENKO, A.I.; ZOLOTAREV, M.A.; NERSESYAN, A.G.;
MIKVAYLOV, A.N.; GAVRILOV, V.A.; TSOMAYA, T.I.; DEVYATKOVA, A.M.;
ZAVARINA, M.V.; SHMETTER, S.M.; BUDYKO, M.I., professor.

Discussion of the report (in the form of debates) [of the current
state climatological research and methods of developing it]. Inform.
sbor, GUGMS no.3/4:26-154 '54. (MIRA 8:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Fedorov). 2. Glavnaya
geofizicheskaya observatoriya im. A.I. Voeykova (for Predtechenskiy,
Lebedev, Yanishevskiy, Isayev, Rakipova, Pokrovskaya, Orlova, Rubin-
shteyn, Budyko, Shcherbakova, Anapol'skaya, Dunayeva, Rudneva, Gavrilov,
Zavarina). 3. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologiche-
skiy institut (for Buchinskiy).

(Continued on next card.)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor. GUGMS no.3/4:26-154 '54. (Card 2) (MIRA 8:3)

4. Vsesoyuznyy institut rastenievodstva (for Selyaninov, Rudenko).
5. Bioklimaticheskaya stantsiya Kiselevodsk (for Bozhne).
6. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Alisov).
7. Ministerstvo putey soobshcheniya SSSR (for Biryukov).
8. Institut geografii Akademii nauk SSSR (for Gal'tsov, Grigor'yev).
9. Geofizicheskaya komissiya Vsesoyuznogo geograficheskogo obshchestva (for Evgenson).
10. Ministerstvo elektrostantsiy i elektropromyshlennosti SSSR (for Muretov).
11. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Khromov).
12. TSentral'nyy nauchno-issledovatel'skiy gidrometeorologicheskiy arkhiv (for Skolov, Zolotarev).
13. Gosudarstvennyy okeanograficheskii institut (for Samoylenko).
14. TSentral'nyy institut prognozov (for Uzunov, Sapozhnikova).
15. Institut geografii Akademii nauk SSSR i TSentral'nyy institut kurortologii (for Chubukov).
16. Nauchno-issledovatel'skiy institut imeni Sechenova, Yalta (for Trotsenko).
17. Arktilicheskiy nauchno-issledovatel'skiy institut (for Wangongaym).

(Continued on next card)

PELOROV, Ye.Ye., professor; PREDTECHINSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state of climatological research and methods of developing it].
Inform.sbor. GUGMS no.3/4:26-154 '54. (Card 3) (MIRA 8:3)

18. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Sokolov). 19. Institut geologii i geografii Akademii nauk Litovskoy SSR (for Styro). 20. Rostovskoe upravlenie gidrometsluzhby (for Temnikova). 21. Morskoy gidrofizicheskiy Institut Akademii nauk SSSR (for Dmitriev). 22. Vsesoyuznyy institut rasteniyevodstva (for Malyugin). 23. Akademiya nauk Estonskoy SSE (for Liedemaa). 24. Akademiya nauk Armyanskoy SSR (for Bagdasaryan). 25. Leningradskiy gidrometeorologicheskiy institut (for Milevskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform.sbor. GUQMS no.3/4:26-154 '54. (Card. 4) (MLRA 8:3)

26. Gosudarstvennyy gidrologicheskiy institut (for Bochkov). 27. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Uteshev). 28. Upravlenie gidrometsluzhby Armyanskoy SSR (for Nersesyan). 29. Leningradskoye upravleniye gidrometsluzhby (for Mikhaylov, Devyatkova). 30. Tbilisskiy gosudarstvennyy universitet (for Tsomaya). 31. TSentral'naya aerologicheskaya observatoriya (for Shmeter).
(Climatology)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9

ZAVARINA, M.V., kandidat fiziko-matematicheskikh nauk.

"Atmosphere of the earth." Reviewed by M.V.Zavarina. Nauka i zhizn'
21 no.5:46-47 My '54.
(Atmosphere) (MLRA 7:6)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010001-9"

USGS/Meteorology - Geophysics

Title : ...

Abstract : The article deals with the question of the origin of
minerals in the upper mantle.

Annotation : ...

Submitted : ...

ZAVARINA, M. V.

Changes in the Heat and Moisture Content of an Air Mass Moving Over a Homogeneous Underlying Surface

Investigation carried out on the data of the synoptic archive of the Leningrad Administration of the Hydrometeorological Service. In accordance with the data of synoptic maps and maps of baric topography the author constructed daily trajectories of air particles and afterwards determined the variation in the heat and moisture content according to the difference in the data at points lying at a distance which the air mass traveled in 24 hours. All the obtained trajectories were analyzed into four groups: transfer from west and southwest in the warm period of the year, west-east transfer, summer trajectories of various directions whose end points were Leningrad, and several winter trajectories. (RZhGeol, No. 4, 1955) Tr. Gl. geofiz. observ., No. 48, 1954, 56-64

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

ZAVARINA, M.V., kandidat fiziko-matematicheskikh nauk, (Leningrad).

A cold dry wind. Priroda 44 no.12:110 D '55. (MLBA 9:1)

(Winds)

ZAVARINA, M.V.

Changes of atmospheric temperature and humidity in its transformation in stationary anticyclones over European U.S.S.R. Trudy GOO no.55:51-58 '55. (MLRA 9:8)
(Meteorology)

ZAVARINA, M.V.

Results of experimental calculations of the nocturnal minimum of
air temperature, Trudy 000 no.66;37-43 '56. (MLRA 10:3)
(Atmospheric temperature)

ZAVARINA, Mariya Vasil'yevna; SELEZNEVA, Ye.S., otvetstvennyy redaktor;
YASNOGORODSKAYA, M.M., redaktor; BRAYNIHA, M.I., tekhnicheskiy
redaktor

[The atmosphere] Atmosfera. Leningrad, Gidrometeorologicheskoe
izd-vo, 1956. 127 p.
(Atmosphere) (MLRA 9:9)